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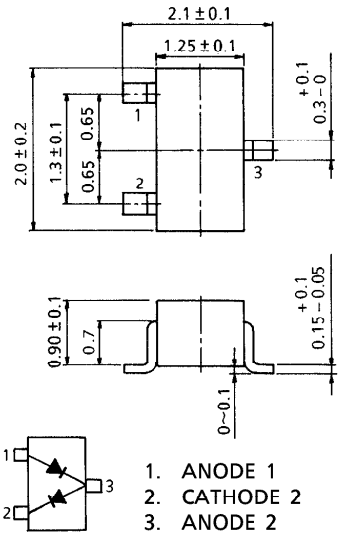
TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

1SS302

ULTRA HIGH SPEED SWITCHING APPLICATIONS.

Unit in mm

- Small Package : SC-70
- Low Forward Voltage : $V_{F(3)}$ = 0.90V (Typ.)
- Fast Reverse Recovery Time : t_{rr} = 1.6ns (Typ.)
- Small Total Capacitance : C_T = 0.9pF (Typ.)



1. ANODE 1
2. CATHODE 2
3. ANODE 2
CATHODE 1

USM	
JEDEC	—
EIAJ	SC-70
TOSHIBA	1-2P1C

Weight : 0.006g

MAXIMUM RATINGS (Ta = 25°C)

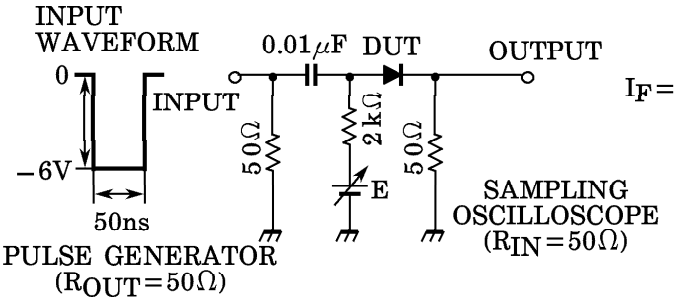
CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	V_{RM}	85	V
Reverse Voltage	V_R	80	V
Maximum (Peak) Forward Current	I_{FM}	300 (*)	mA
Average Forward Current	I_O	100 (*)	mA
Surge Current (10ms)	I_{FSM}	2 (*)	A
Power Dissipation	P	100	mW
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	−55~125	°C

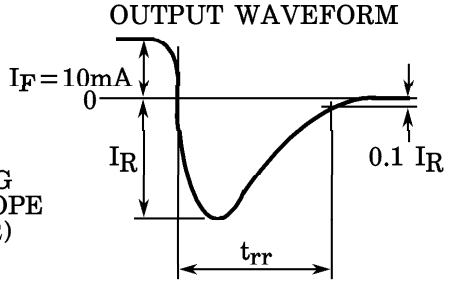
(*) Unit Rating. Total Rating = Unit Rating × 0.7

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

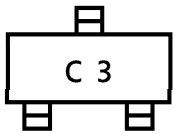
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_{F(1)}$	I_F = 1mA	—	0.60	—	V
	$V_{F(2)}$	I_F = 10mA	—	0.72	—	
	$V_{F(3)}$	I_F = 100mA	—	0.90	1.20	
Reverse Current	$I_{R(1)}$	V_R = 30V	—	—	0.1	μA
	$I_{R(2)}$	V_R = 80V	—	—	0.5	
Total Capacitance	C_T	V_R = 0, f = 1MHz	—	0.9	3.0	pF
Reverse Recovery Time	t_{rr}	I_F = 10mA, Fig.1	—	1.6	4.0	ns

Fig.1 REVERSE RECOVERY TIME (t_{rr}) TEST CIRCUIT





MARKING



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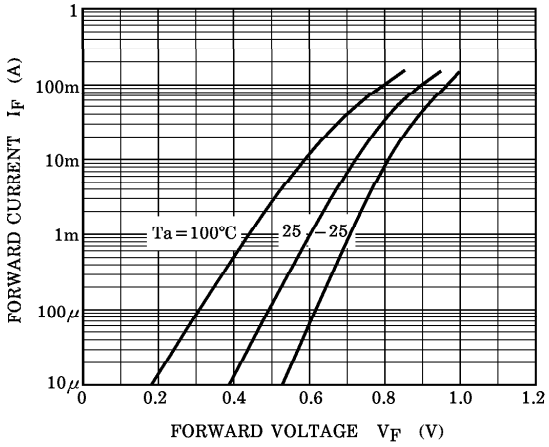
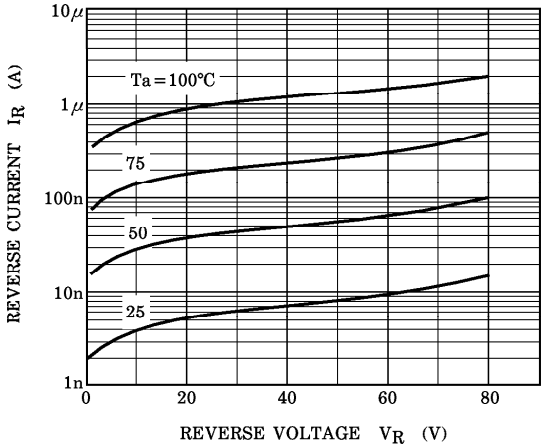
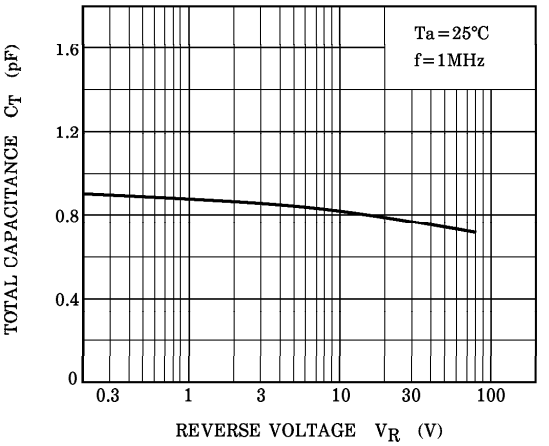
$I_F - V_F$



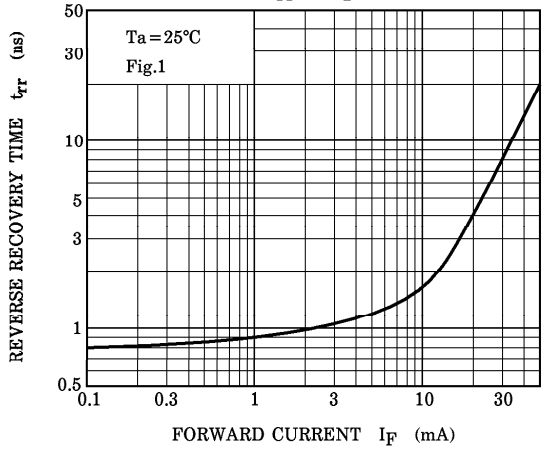
$I_R - V_R$



$C_T - V_R$



$t_{rr} - I_F$



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